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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/744,097	01/16/2001	David A Shafer	1414.501U2	2981	
7590 04/11/2005			EXAM	EXAMINER	
DR. BENJAMIN ADLER			FREDMAN, JEFFREY NORMAN		
C/O ADLER & ASSOCIATION 8011 CANDLE LANE			ART UNIT	PAPER NUMBER	
HOUSTON, TX 77071			1637		
		DATE MAILED: 04/11/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/744,097	SHAFER, DAVID A			
	Office Action Summary	Examiner	Art Unit			
		Jeffrey Fredman	1637			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 14 Fe	ebruary 2005.	•			
2a)□	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
 4) Claim(s) 28-35,38,39 and 58-61 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 28-35,38,39 and 58-61 are subject to restriction and/or election requirement. 						
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa				

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DETAILED ACTION

1. This supplemental restriction requirement is necessitated by Applicant's amendment which clarified the claims (and added new claims that clearly are distinct) and shows several different Inventions. Because of the indefiniteness of claims 38 and 39 previously, it was not apparent that these were distinct inventions. With the improved claims, this distinctness is apparent.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 28-35 and 59-61, drawn to methods of hybridization in which probe linkers are used, classified in class 435, subclass 6.
 - II. Claims 38-39 and 58, drawn to methods of detection in which ring probes and lock probes which provide a circular enclosure of the target sequence are used, classified in class 435, subclass 6.

The inventions are distinct, each from the other because of the following reasons:

3. Inventions in Group I and in Group II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because they use different products with different functions and have different modes of operation. The Group II method uses ring probes and lock probes to form a circular enclosure of the target while the Group I method uses probes with probe linkers to form a helical enclosure of the target. The structure of the probes used in the methods is

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different, the steps which occur in Groups I and II are different and the overall mode of operation of Groups I and II are significantly different and yield different results.

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4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper. In particular, there is a significant search burden because, in this area, there is no standardized terminology. Thus, Applicant's use of the term "ring probe" in Group II is analogous to other terms in the art such as "circularizing probe" or "padlock probe" while the Group I concept of a "probe linker" is analogous to a variety of different elements in the art. Entirely different searches of Group I and Group II will be required with the use of different search terms to address the particular probe types used. Also, different art is likely to be relevant to the different Groups, since art as diverse as "padlock probes" and RCA may be applicable to Group II but would be irrelevant to Group I, while art such as the cited Urdea sandwich type assays would apply to Group I but be less relevant to Group II. Consequently, there is a significant search burden.

Sequence Election Requirement Applicable to All Groups

5. In addition, Group I detailed above reads on patentably distinct Groups drawn to multiple SEQ ID Numbers. The sequences are patentably distinct because they are unrelated sequences, and a further restriction is applied to Group I. Furthermore, the sequence searching in multiple expansive databases has put undue burden on the examiner and office resources. For the elected Group drawn to nucleotide sequences, the Applicants are required to elect a single nucleic acid sequence (See MPEP 803.04).

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MPEP 803.04 states:

Nucleotide sequences encoding different proteins are structurally distinct chemical compoundsand are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq. Nevertheless, to further aid the bioteclmology industry in protecting its intellectual property without creating an undue burden on the Office, the Commissioner has decided sua sponte to partially waive the requirements of 37 CFR 1. 141 et seq. and permit a reasonable number of such nucleotide sequences to be claimed in a single application. See Examination of Patent Applications Containing Nucleotide Sequences, 1 192 O.G. 68 (November 19, 1996).

Therefore Applicant must elect ONE (1) of SEQ ID Nos; 6, 10, 71, 76 or 81 for examination.

- 6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Fredman whose telephone number is (571)272-0742. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571)272-0782. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey Fredman Primary Examiner

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